MODULHANDBUCH

Service Transformation Consultant (IU)

Weiterbildung Service Transformation Consultant (UPS-MDPSTC)

n/a ECTS

Fernstudium

INTERNATIONALE HOCHSCHULE

Inhaltsverzeichnis

1. Semester

Servicemanagement I

Modulcode: MWSM1

Modultyp	Zugangsvoraussetzungen	Niveau	ECTS	Zeitaufwand Studierende
s. Curriculum	keine	MA	n/a	150 h

Semester	Dauer	Regulär angeboten im	Unterrichtssprache
s. Curriculum	Minimaldauer: 1 Semester	WiSe/SoSe	Deutsch

Modulverantwortliche(r)

Prof. Maren Weber (Servicemanagement I)

Kurse im Modul

- Servicemanagement I (MWSM01)

Art der Prüfung(en)

Modulprüfung	Teilmodulprüfung
Studienformat: Fernstudium Klausur, 90 Minuten	

Anteil der Modulnote an der Gesamtnote

s. Curriculum

Lehrinhalt des Moduls

- Dienstleistung und Kaufprozess
- Segmentierung, Positionierung, Zielmarktauswahl
- Das Dienstleistungsprodukt
- Preisstrategie
- Kommunikation und Distribution von Dienstleistungen

Qualifikationsziele des Moduls

Servicemanagement I

Nach erfolgreichem Abschluss sind die Studierenden in der Lage,

- die inhaltlichen Grundlagen des Dienstleistungsmanagements aus überwiegend funktionaler und ressourcenorientierter Sicht erläutern.
- ihr erlangtes methodisch-instrumentelles Wissen der Wertschöpfungskette von Dienstleistungen anzuwenden-
- die grundsätzlichen Managementanforderungen für die Planung, Organisation, Steuerung und Kontrolle von Dienstleistungsbetrieben zu benennen.
- erlernten Konzepte und Methoden auf praktische Geschäftsmodelle der Dienstleistungsindustrie zu übertragen und in der Praxis anzuwenden.

Bezüge zu anderen Modulen im Studiengang	**Bezüge zu anderen Studiengängen der IU Internationale Hochschule (IU)**
Ist Grundlage für alle weiteren Module aus dem Bereich Betriebswirtschaft & Management	Alle Master-Programme aus dem Bereich Wirtschaft & Management

Servicemanagement I

Kurscode: MWSM01

Niveau	Unterrichtssprache	SWS	ECTS	Zugangsvoraussetzungen
MA	Deutsch		n/a	keine

Beschreibung des Kurses

Der Sektor Dienstleistungen dominiert die Wirtschaftsleistung aller entwickelten Volkswirtschaften. Allein in Deutschland werden über 70 % des Bruttoinlandsproduktes durch Dienstleistungen der Bereiche Handel, Kultur, Verkehr, Information, Banken, Versicherungen, Tourismus, Gesundheit, Bildung, Beratung, industrielle Dienstleistungen und freie Berufe erwirtschaftet.Schwerpunkt dieses ersten Teils des Moduls sind die Grundlagen für das Verständnis von Services vor allem aus funktionaler Sicht. Die zentralen Fragen, die in diesem Kurs behandelt werden, sind: Was unterscheidet einen Service von einem Produktionsgut? Was sind die grundlegenden Komponenten und Methoden des Servicemanagements? Wie wende ich sie an? Die Studenten setzen sich dabei besonders mit den spezifischen Merkmalen des Kauf- und Nutzungsverhaltens auf Dienstleistungsmärkten einerseits und mit den spezifischen Merkmalen des Dienstleistungsbereitstellungsprozesses andererseits auseinander. Mit dem erfolgreichen Abschluss des Kurses verfügen die Studierenden über das grundlegende Verständnis, um bestehende Servicekonzepte in der Dienstleistungsbranche aus Managementsicht zu analysieren und zu bewerten und neue Konzepte zu entwickeln.

Kursziele

Nach erfolgreichem Abschluss sind die Studierenden in der Lage,

- die inhaltlichen Grundlagen des Dienstleistungsmanagements aus überwiegend funktionaler und ressourcenorientierter Sicht erläutern.
- ihr erlangtes methodisch-instrumentelles Wissen der Wertschöpfungskette von Dienstleistungen anzuwenden-
- die grundsätzlichen Managementanforderungen für die Planung, Organisation, Steuerung und Kontrolle von Dienstleistungsbetrieben zu benennen.
- erlernten Konzepte und Methoden auf praktische Geschäftsmodelle der Dienstleistungsindustrie zu übertragen und in der Praxis anzuwenden.

Kursinhalt

1. Was ist Dienstleistung?
   - 1.1 Was sind Dienstleistungen und warum wächst der Dienstleistungssektor?
   - 1.2 Welche Dienstleistungssektoren gibt es?
   - 1.3 Wie unterscheiden sich Dienstleistungen von Gütern?
   - 1.4 Der Marketing-Mix der Dienstleistungen

Literatur
Pflichtliteratur
Weiterführende Literatur ▪ Bruhn, M. (2008): Qualitätsmanagement für Dienstleistungen. 7. Auflage, Springer, Berlin. ▪ Haller, S. (2010): Dienstleistungsmanagement. Grundlagen – Konzepte – Instrumente. 4. Auflage, Gabler, Wiesbaden. ▪ Maglio, P. P./Kieliszewski C. A./Spohrer A. (Hrsg.) (2010): Handbook of Service Science. Springer, Berlin. ▪ Maleri R./Frietzsche U. (2008): Grundlagen der Dienstleistungsproduktion. 5. Auflage, Springer, Berlin. ▪ Meffert, H./Bruhn, M. (2009): Dienstleistungsmarketing. Grundlagen – Konzepte – Methoden. 6. Auflage, Gabler, Wiesbaden.

Studienformat Fernstudium

Studienform	**Kursart**
Fernstudium	Online-Vorlesung

Informationen zur Prüfung	
Prüfungszulassungsvoraussetzungen	**BOLK:** Ja **Evaluation:** Nein
Prüfungsleistung	Klausur, 90 Minuten

Zeitaufwand Studierende					
Selbststudium	**Präsenzstudium**	**Tutorium**	**Selbstüberprüfung**	**Praxisanteil**	**Gesamt**
90 h	0 h	30 h	30 h	0 h	150 h

Lehrmethoden	
☐ Learning Sprints®	☐ Repetitorium
☑ Skript	☐ Creative Lab
☑ Vodcast	☐ Prüfungsleitfaden
☐ Shortcast	☐ Live Tutorium/Course Feed
☑ Audio	☐ Reader
☑ Musterklausur	☑ Folien

Data Utilization

Module Code: DLMBBD1

Module Type	Admission Requirements	Study Level	CP	Student Workload
see curriculum	none	MA	n/a	150 h

Semester / Term	Duration	Regularly offered in	Language of Instruction
see curriculum	Minimum 1 semester	WiSe/SoSe	English

Module Coordinator

Dr. Hamzeh Alavirad (Data Utilization)

Contributing Courses to Module

- Data Utilization (DLMBBD01)

Module Exam Type

Module Exam	Split Exam
Study Format: Distance Learning Exam, 90 Minutes	

Weight of Module

see curriculum

Module Contents

- Pattern recognition
- Natural language processing
- Image recognition
- Detection and sensing
- Problem-solving
- Decision-making

Learning Outcomes

Data Utilization

On successful completion, students will be able to

- understand how identity, similarity, and diversity of data can be utilized in problem-solving approaches.
- differentiate between complicated and complex systems of investigation.
- identify the variability of a problem under investigation.
- distinguish between invariant and dynamic features of an investigated system.
- synthesize gained insights to propose a reliable data analytics solution.
- apply different approaches for acquiring and using a knowledge management system.

Links to other Modules within the Study Program	Links to other Study Programs of IU International University of Applied Sciences (IU)
This module is similar to other modules in the field of Data Science & Artificial Intelligence	All Master Programs in the IT & Technology field

Data Utilization

Course Code: DLMBBD01

Study Level	Language of Instruction	Contact Hours	CP	Admission Requirements
MA	English		n/a	none

Course Description

The course Data Utilization introduces case-based applications that take advantage of regularities and patterns found within continuously generated texts, images, or sensor data. The cases solve issues of pattern recognition, natural language processing, image recognition, detection and sensing, problem-solving, and decision support. The cases are related to the application fields of cybersecurity, linguistics, augmented reality, intelligent transportation, problem-solving, and decision support.

Course Outcomes

On successful completion, students will be able to

- understand how identity, similarity, and diversity of data can be utilized in problem-solving approaches.
- differentiate between complicated and complex systems of investigation.
- identify the variability of a problem under investigation.
- distinguish between invariant and dynamic features of an investigated system.
- synthesize gained insights to propose a reliable data analytics solution.
- apply different approaches for acquiring and using a knowledge management system.

Contents

1. Introduction
   - 1.1 The Meaning of Identity, Similarity, and Diversity
   - 1.2 Data Patterns and Ontologies
2. Pattern Recognition
   - 2.1 Analysis of User Interaction, Attitude, and Behavior
   - 2.2 Predictive Analytics
   - 2.3 Preventing the Unknown: User Behavior Analytics in Cybersecurity
3. Natural Language Processing
   - 3.1 Concepts of Natural Language
   - 3.2 Speech Recognition and Acoustic Modeling
   - 3.3 Discerning the Meaning: Linguistics and Social Media

4. Image Recognition
   - 4.1 Basics of Image Representation
   - 4.2 Integral Transforms and Compression
   - 4.3 Exploiting the Visual: Image Recognition for Augmented Reality

5. Detection and Sensing
   - 5.1 Sensor Construction and Techniques
   - 5.2 Intelligent Agents and Surveillance
   - 5.3 Managing the Complex: Sensor Networks in Intelligent Transportation Systems

6. Problem-solving
   - 6.1 Knowledge Sharing and the Cloud
   - 6.2 Rule-based Systems
   - 6.3 Learning from Nature: Expert Systems in Business

7. Decision Support
   - 7.1 Invariants, Determinants, and Alternatives in Decision-making
   - 7.2 Correlation and Causality in Strategic Decision-making
   - 7.3 Approaching the Crossroads: Dashboards and Visualization

8. Data Security and Data Protection
   - 8.1 Securing Data Storage and Processing Infrastructure Against Unauthorized Access
   - 8.2 Compliance and Regulations, GPDR

Literature

Compulsory Reading

Further Reading

- Bajcsy, P., Chalfoun, J., & Simon, M. (2017). Web microanalysis of big image data. Berlin:Springer. (Database: ProQuest).
- Delen, D. (2015). Real-world data mining: Applied business analytics and decision making. NewYork, NY: Pearson.
- Farzindar, A., Inkpen, D., & Hirst, G. (2017). Natural language processing for social media (2nd ed.).San Rafael, CA: Morgan & Claypool Publishers. (Database: ProQuest).
- Hsu, H., Chang, C., & Hsu, C. (Eds.). (2017). Big data analytics for sensor-network collectedintelligence. Cambridge, MA: Academic Press. (Database: ProQuest).
- Pearl, J., & Mackenzie, D. (2018). The book of why: The new science of cause and effect. New York,NY: Basic Books.

Study Format Distance Learning

Study Format	Course Type
Distance Learning	Online Lecture

Information about the examination	
Examination Admission Requirements	**BOLK:** yes **Course Evaluation:** no
Type of Exam	Exam, 90 Minutes

Student Workload					
Self Study	**Presence**	**Tutorial**	**Self Test**	**Practical Experience**	**Hours Total**
90 h	0 h	30 h	30 h	0 h	150 h

Instructional Methods	
☐ Learning Sprints®	☐ Review Book
☑ Course Book	☐ Creative Lab
☐ Vodcast	☐ Guideline
☑ Shortcast	☐ Live Tutorium/Course Feed
☑ Audio	☐ Reader
☑ Exam Template	☑ Slides

Application Scenarios and Case Studies

Module Code: DLMBBD2-01

Module Type	Admission Requirements	Study Level	CP	Student Workload
see curriculum	none	MA	n/a	150 h

Semester / Term	Duration	Regularly offered in	Language of Instruction
see curriculum	Minimum 1 semester	WiSe/SoSe	English

Module Coordinator

Dr. Hamzeh Alavirad (Application Scenarios and Case Studies)

Contributing Courses to Module

- Application Scenarios and Case Studies (DLMBBD02-01)

Module Exam Type

Module Exam	Split Exam
Study Format: Distance Learning Written Assessment: Case Study	

Weight of Module

see curriculum

Module Contents

- Agile development
- Workflow overview
- Fields of application
- Sprint Planning; Sprint
- Sprint Retrospective
- Committee presentation

Learning Outcomes

Application Scenarios and Case Studies

On successful completion, students will be able to

- establish an application scenario for data science within a self-organized team.
- identify requirements and appropriate technologies for data collection.
- evaluate and select applicable technologies for data pre-processing and processing.
- assess challenges and risks of the selected approach.
- define clearly the outcome and value of the approach.
- elaborate a conceptual design document and presentation for decision-makers.

Links to other Modules within the Study Program	Links to other Study Programs of IU International University of Applied Sciences (IU)
This module is similar to other modules in the field of Data Science & Artificial Intelligence	All Master Programs in the IT & Technology field

Application Scenarios and Case Studies

Course Code: DLMBBD02-01

Study Level	Language of Instruction	Contact Hours	CP	Admission Requirements
MA	English		n/a	none

Course Description

This course provides an opportunity for students to work on application scenarios for data science in selected industry sectors. This allows the students to combine the learning objectives from the other modules in a setting which closely resembles further work applications: Starting from the identification of suitable application areas, a specific use-case is selected and a set of metrics and/or KPIs is selected which can be used whether the case study is considered successful and leads to tangible benefit. A broad discussion on which data and type of data, as well as where to obtain, store, and process the data, allows students detailed insight into many practical issues that arise when dealing with data-driven projects, ranging from technical questions about infrastructure to data quality and relevant domain expertise.The actual work on the case study begins with the creation of a detailed project plan which defines objectives, means, and outcome. The plan is then implemented using an agile project management framework.The course closes with delivery of a design document and a final presentation in front of a committee of selected lecturers.

Course Outcomes

On successful completion, students will be able to

- establish an application scenario for data science within a self-organized team.
- identify requirements and appropriate technologies for data collection.
- evaluate and select applicable technologies for data pre-processing and processing.
- assess challenges and risks of the selected approach.
- define clearly the outcome and value of the approach.
- elaborate a conceptual design document and presentation for decision-makers.

Contents

1. Introduction to Agile Frameworks
   - 1.1 Scrum
   - 1.2 Kanban
   - 1.3 EduScrum
2. Fields of Application & Case Study Setup
   - 2.1 Overview of Fields of Application
   - 2.2 Definition of Success
   - 2.3 Selection of either of the fields (1 per team)

3. Data Sources
   - 3.1 Identifying Potential Internal and External Data Sources
   - 3.2 Identifying Potential Data Types and Data Processing Requirements
   - 3.3 Identifying Potential Data Quality Challenges

4. Case Study Work
   - 4.1 Creating a Project Plan
   - 4.2 Implementation of the Case Study Using the Agile Approach

5. Case Study Presentation
   - 5.1 Case Study Presentation: Approach and Key Findings
   - 5.2 Creation and Submission of Case Study Report

Literature

Compulsory Reading

Further Reading

- Ashmore, S. & Runyan, K. (2014). Introduction to agile methods. Addison-Wesley.
- Delhij, A., van Solingen, R., & Wijnandst, W. (2015). The eduScrum guide. Available online.
- Han, J., Kamber, M., & Pei, J. (2012). Data mining: Concepts and techniques (3rd ed.). Morgan Kaufmann.
- Schwaber, K., & Sutherland, J. (2017). The Scrum guide—The definitive guide to Scrum: The rules of the game.

Study Format Distance Learning

Study Format	**Course Type**
Distance Learning	Case Study

Information about the examination	
Examination Admission Requirements	**BOLK:** no **Course Evaluation:** no
Type of Exam	Written Assessment: Case Study

Student Workload					
Self Study	**Presence**	**Tutorial**	**Self Test**	**Practical Experience**	**Hours Total**
110 h	0 h	20 h	20 h	0 h	150 h

Instructional Methods	
☐ Learning Sprints®	☐ Review Book
☑ Course Book	☐ Creative Lab
☐ Vodcast	☑ Guideline
☑ Shortcast	☐ Live Tutorium/Course Feed
☑ Audio	☐ Reader
☐ Exam Template	☑ Slides

Change Management

Module Code: DLMBCM

Module Type	Admission Requirements	Study Level	CP	Student Workload
see curriculum	none	MA	n/a	150 h

Semester / Term	Duration	Regularly offered in	Language of Instruction
see curriculum	Minimum 1 semester	WiSe/SoSe	English

Module Coordinator

Prof. Dr. Sarah Schöllhammer (Change Management)

Contributing Courses to Module

- Change Management (DLMBCM01)

Module Exam Type

Module Exam	Split Exam
Study Format: Distance Learning Written Assessment: Case Study	

Weight of Module

see curriculum

Module Contents

- The context and meaning of change
- The change process
- Perspectives for understanding change
- Implementing change

Learning Outcomes

Change Management

On successful completion, students will be able to

- recognize common features of organizational change and anticipate some of the standard difficulties encountered when an organization engages in change processes.
- explain the importance of organizational change.
- develop a conceptual framework for planned and improvised organizational change, and differentiate between anticipated, emergent, and opportunity-based change.
- utilize and redesign formal organizational structures to facilitate change processes.
- recognize the role of informal organizational structures and identify key stakeholders to promote change processes.
- analyze the social networks that exist within an organization, map independencies and motives/interests, and plan how to distribute information and redesign work flows.
- differentiate between groups of stakeholders and identify the most suitable strategy to adopt with each group.
- recognize the role of the change leader as a political broker and build social capital through informal methods.
- utilize stories and symbols when communicating with others in an organization to maximize leverage as a cultural change leader.
- draw on empirical evidence to plan and implement change processes in an organization.

Links to other Modules within the Study Program	**Links to other Study Programs of IU International University of Applied Sciences (IU)**
This module is similar to other modules in the fields of Business Administration & Management	All Master Programmes in the Business & Management fields

Change Management

Course Code: DLMBCM01

Study Level	Language of Instruction	Contact Hours	CP	Admission Requirements
MA	English		n/a	none

Course Description

We live in a world characterized by constant change. This affects not only individuals but also organizations. Even successful organizations need to constantly reinvent themselves in order to remain successful. This course presents a discussion of change in relation to the complexities of organizational life, with an emphasis on applying theory to actual practice. Organizational change is an international phenomenon and the course includes many international case examples. With a focus on organizational change as opposed to personal change and/or entrepreneurship, this course has a distinctly different focus from the related modules "Leadership" and "Innovation and Entrepreneurship." The first part of the course considers the nature of change and different change models. The second part focuses on how different perspectives complement one another and can be used to better understand, analyze, and diagnose change processes. The course deals with issues of structure, culture, and politics. In the later part of the course, the implementation of change is considered in detail. Given that many change processes fail, this part is an important learning component to complement an in-depth understanding of change.

Course Outcomes

On successful completion, students will be able to

- recognize common features of organizational change and anticipate some of the standard difficulties encountered when an organization engages in change processes.
- explain the importance of organizational change.
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- draw on empirical evidence to plan and implement change processes in an organization.

Contents

Literature
Compulsory Reading
Further Reading ▪ Bolman, L. G., & Deal, T. E. (2013). Reframing organizations: Artistry, choice, and leadership (5th ed.). San Francisco, CA: Jossey-Bass. ▪ Cameron, K. S., & Quinn, R. E. (2011). Diagnosing and changing organizational culture: Based on the competing values framework (3rd ed.). San Francisco, CA: Jossey-Bass. ▪ Pentland, A. (2014). Social physics: How good ideas spread – The lessons from a new science. New York, NY: Penguin Press. ▪ McChrystal, S., Collins, T., Silverman, D., & Fussell, C. (2015). Team of teams: New rules of engagement for a complex world. New York, NY: Penguin Press. ▪ Worren, N. A. M. (2012). Organisation design: Re-defining complex systems. Harlow: Pearson.

Study Format Distance Learning

Study Format	Course Type
Distance Learning	Case Study

Information about the examination	
Examination Admission Requirements	**BOLK:** yes **Course Evaluation:** no
Type of Exam	Written Assessment: Case Study

Student Workload					
Self Study	**Presence**	**Tutorial**	**Self Test**	**Practical Experience**	**Hours Total**
110 h	0 h	20 h	20 h	0 h	150 h

Instructional Methods	
☐ Learning Sprints®	☐ Review Book
☑ Course Book	☐ Creative Lab
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